

Maria Alessandra Ragusa

Elliptic boundary value problem in Vanishing Mean Oscillation hypothesis

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Abstract: In this note the well-posedness of the Dirichlet problem (1.2) below is proved in the class $H_0^{1,p}(\Omega)$ for all $1 < p < \infty$ and, as a consequence, the Hölder regularity of the solution u .

\mathcal{L} is an elliptic second order operator with discontinuous coefficients (VMO) and the lower order terms belong to suitable Lebesgue spaces.

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